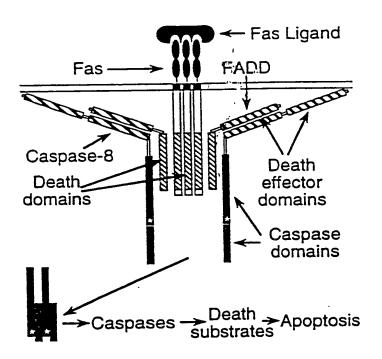
ooeses as a survivo

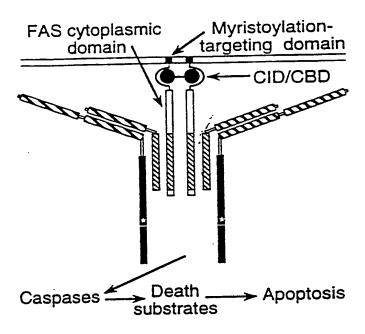
1 / 50

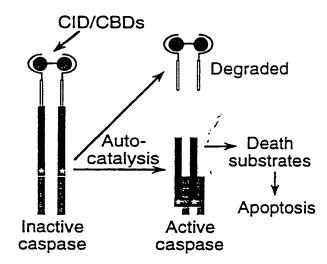
# BEST AVAILABLE COPY

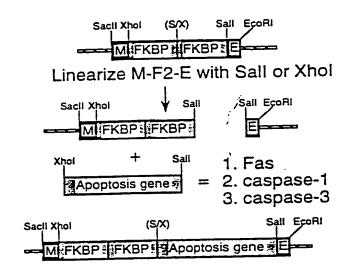


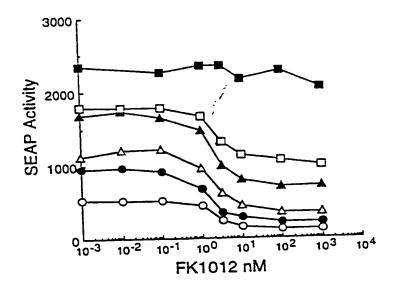
09/647418 PCT/US99/06799

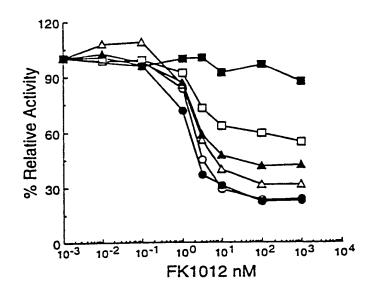
2 / 50

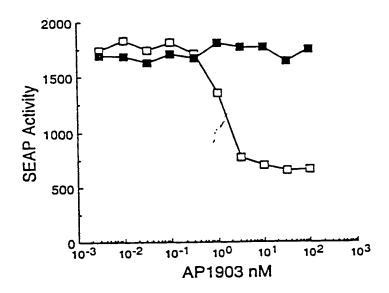


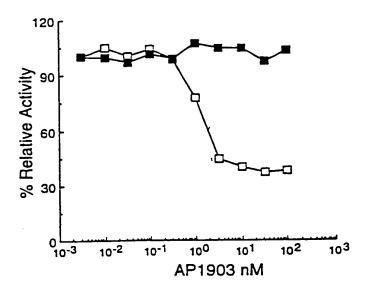




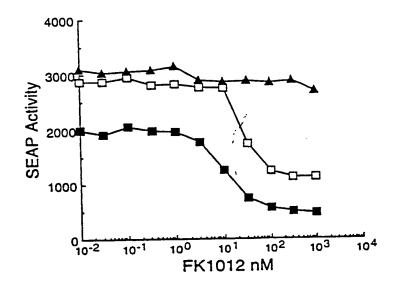








9 / 50

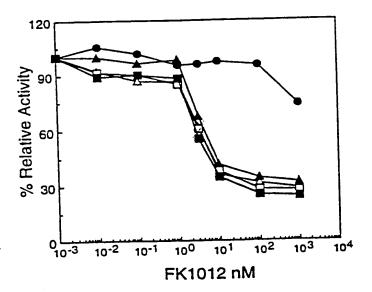


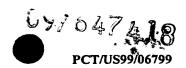
10 / 50

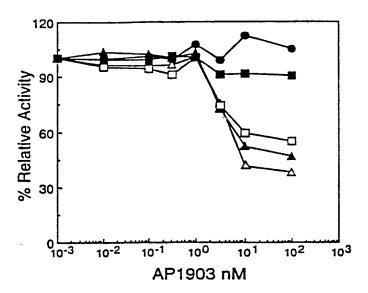
												_	
1	F,2-Casp-3							F,2-Casp3/S163					
	Hours							Hours					
	8	14	2		.5	0	8	4	2	1	.5	0	
		1	<u> </u>		<u> </u>				_		$\overline{}$	_	
100 nM	-	_					_		•	•			
500 nM	_	_	_	_	-	•	-	-	-	-	-		

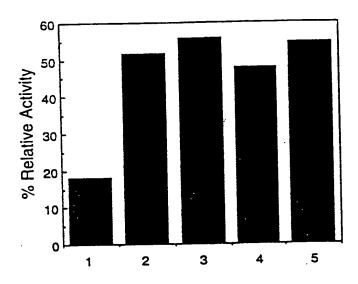
09/647418 PCT/US99/06799

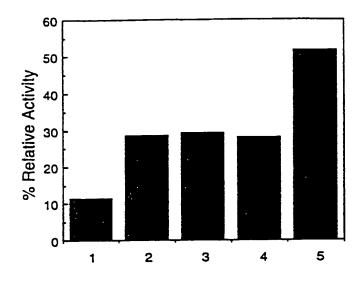
	= <sub>v</sub> 2	-C	asp	-3		F <sub>v</sub> 2-Casp3/S163					
	AP1903 nM										
100	32	10	3.2	1	0	100	32	10	3.2	1	0





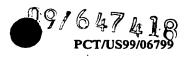


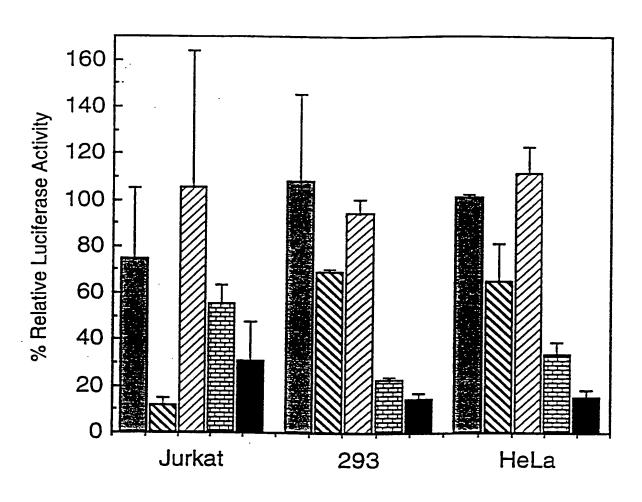




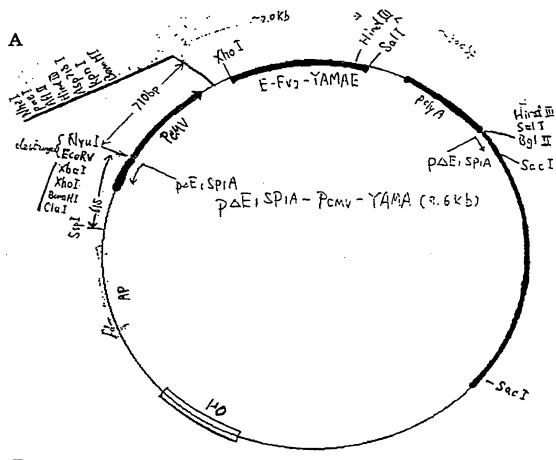


%Survival	120 100 80 60 40	工機器					一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一	<b>到战却,据据日本山外的时间将城城,被北京</b> 参加 +		(1) (1) (1) (1) (1) (1) (1) (1) (1)	HIND IN THE RESIDENCE OF THE PARTY OF THE PA
Вс	O I-x <sub>L</sub>	<b>-</b>	13.00	+			+		爱	+	
Construct	Collegiac	M-F,2	M-F,2-FAS	M-F <sub>v</sub> 2-FAS	F <sub>pk</sub> 3	F <sub>pk</sub> 3-Casp-1	F <sub>pk</sub> 3-Casp-1	F,2	F,2-Casp-3	F,2-Casp-3	Mock

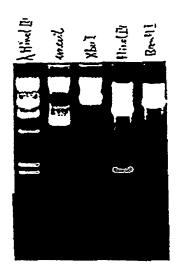


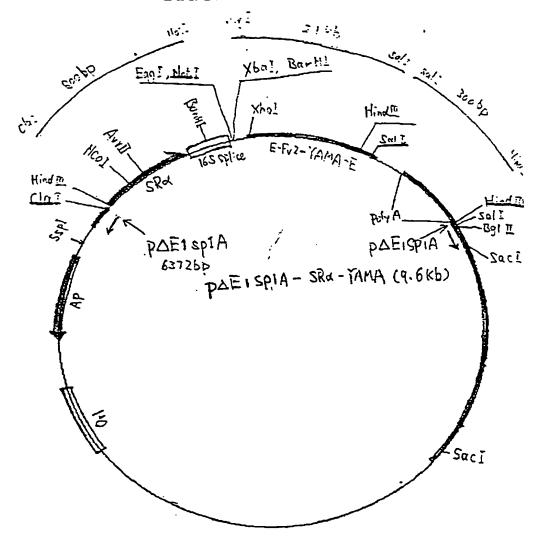


# 

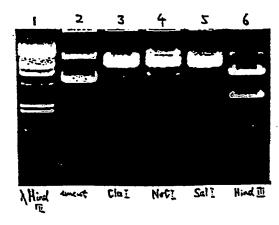


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CID-Mediated Apoptosis In BPH-derived CR-2a SMC

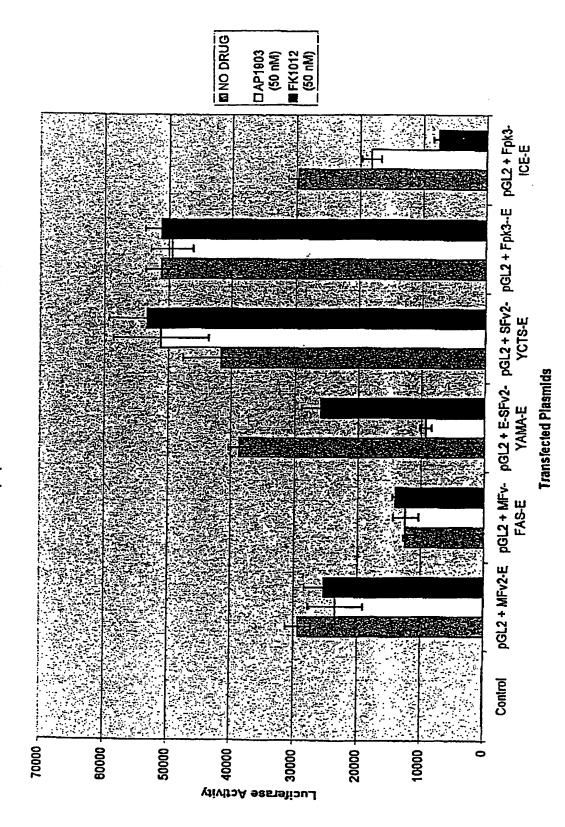
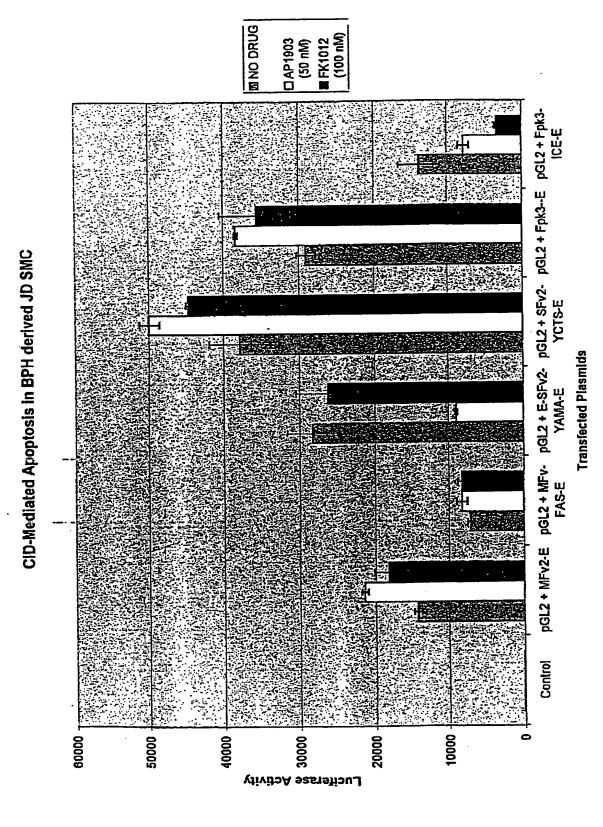
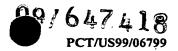
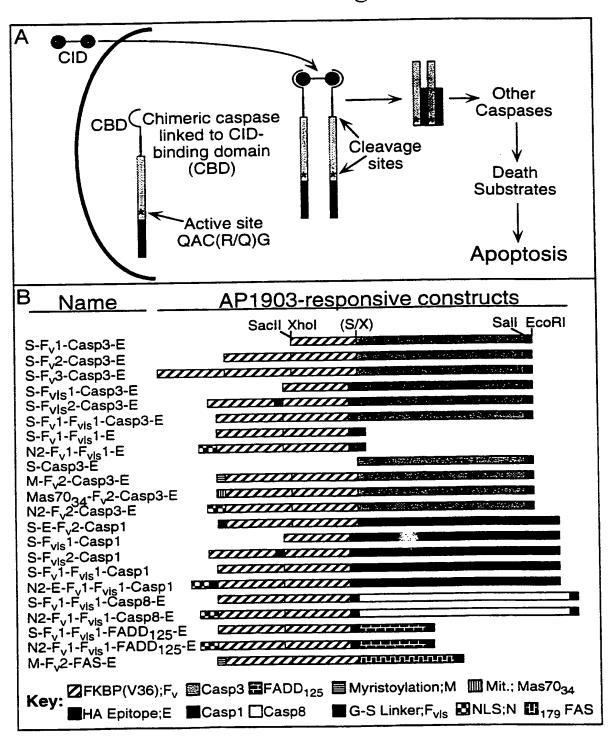


FIGURE 22





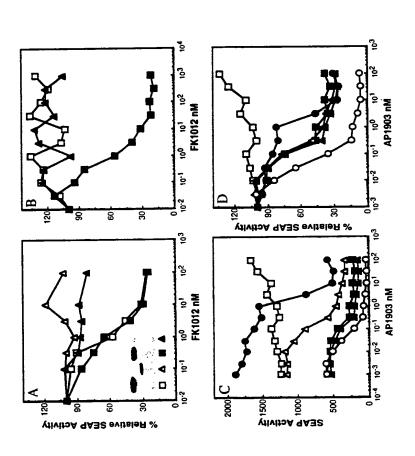
### Fig 23 (Fig 24 on Reverse)

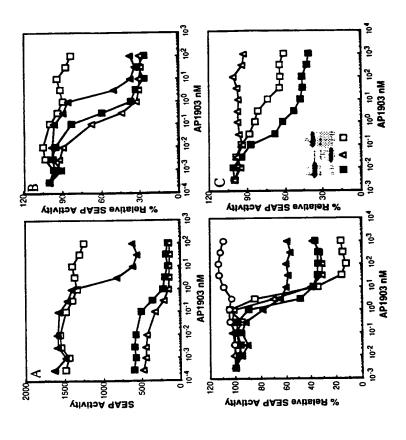


Final Size: 50% or 11.1cm



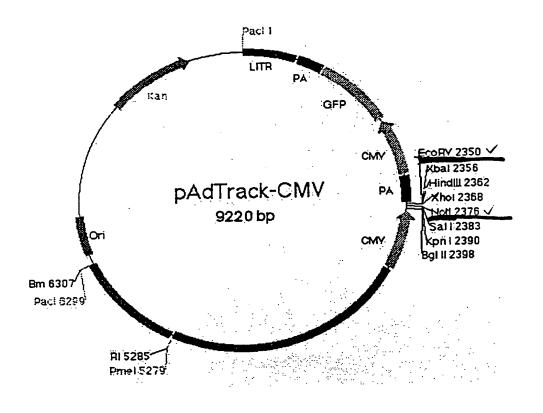
Doetzale "Caeco

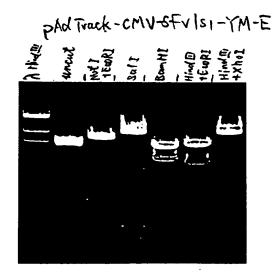


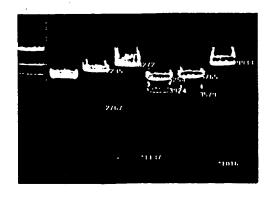


Final Size: 67% or 6.9 cm

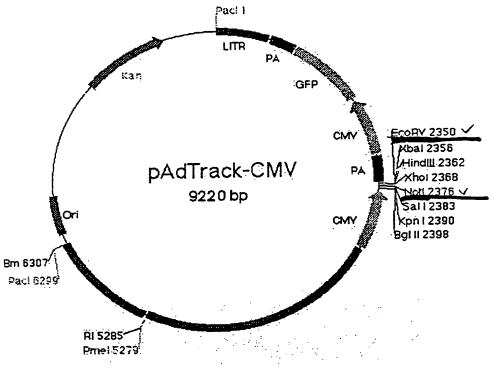
Generation of Ad-GFP-CMV-YM-E Ad-GFP-CMV-E-FTC US 99/06799 PAd Track - CMV ~ FUISI - YM-E D cut pAd Trock-CMV-with EORV + Not I pAd Track-CMV 1 mg/2ml (PAd Track-CMV) + Incl Bulley H 9220 bp + int FORY + Int Not ? + HOO sul 37°C 2 %2 @ out pSHI/1 - FVT s1 - YM - E with Not I + EWRI (E-Fui-Fulst- ICEst) (got 22Kb FUSU-111-E) 2 mg/12 ml (pSH: 15= FV151-YM-F +2 ml FCORI 249/3.2001 +2ml Ruly H +H2014.8ml, 37°C, 1 he. Blunt - loum dNTP 12ml (10 m/each) + 2ml Buffer B peul H20 + 4U/2ml Klenew, 25°C, 30min; + EDID -> 13min In cativate Klenow by firsting at 75°C, 10 min. Phenol: Chloroform extraction PSHI/S FUISI-YM-E Con Gine Close ) + Hot: + Sul ] Then + 2 ul Not I , 37°C , 162 3) Run gel, cut bands, pour tigether, Gone Clean Elite in 40 ml PARTICLE CAY + Not + Ecopy - ZWHZA @ Ligation FVISI -XW-E PZHI/Z-E-I JON+ Flutent 16 ml + 2 ml 10 x 1: 20tign Buflix Ib2+ Ta ligase, 16°C, evernight. @ Miniprep with Qingen Kit

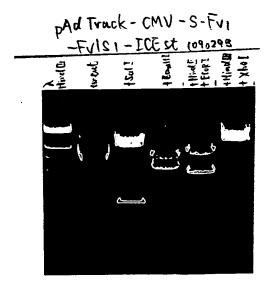






JPEG image 511x431 pixels





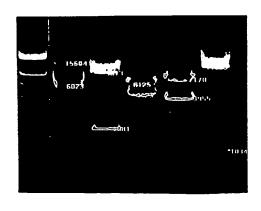
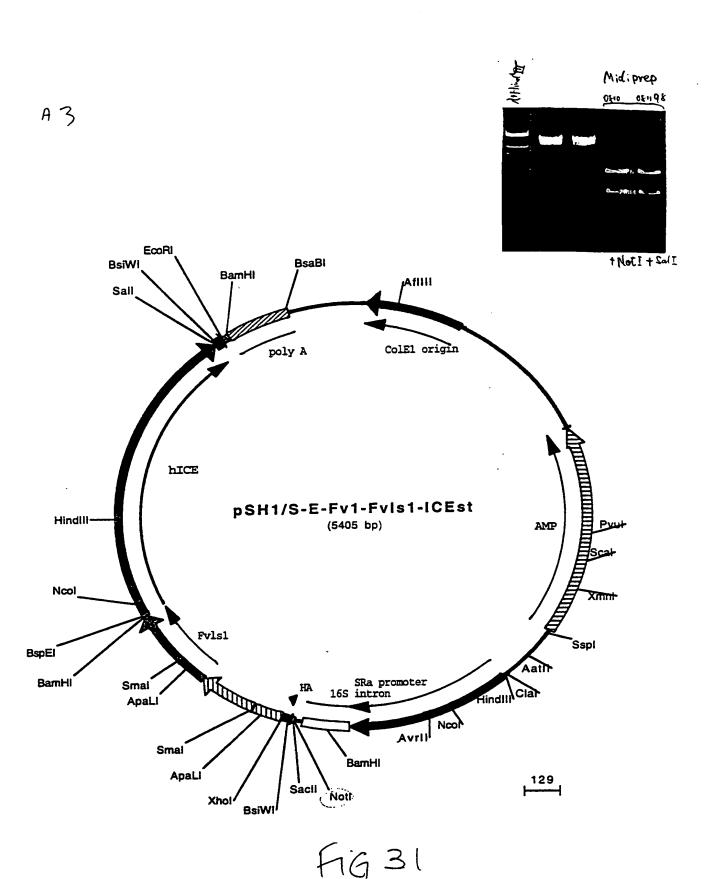




Fig 30



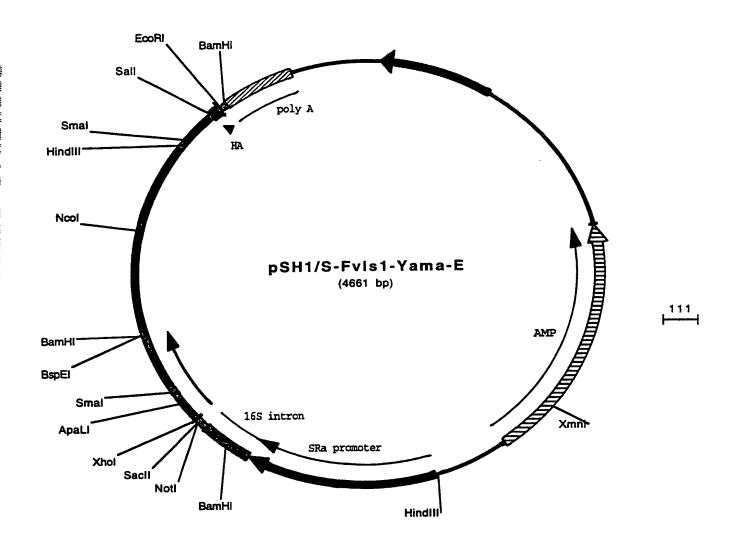
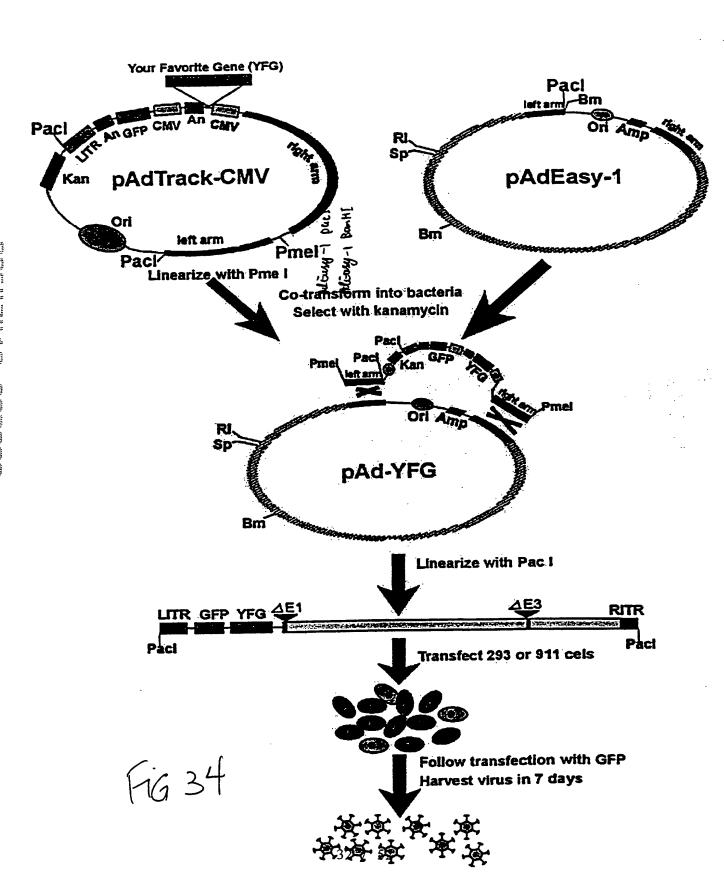
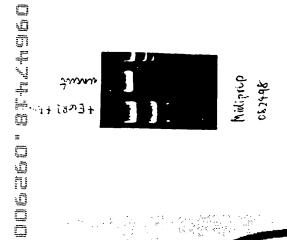
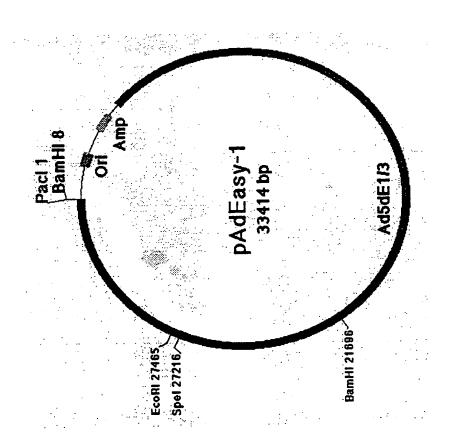


Fig 32

Generation of Ad-GFP · CMV - TM-E Ad-GFP - CMV - E-TCE	
D Co-transform E. coli BJ S163 with pAdEasy-1 and pAdTrack-CMV-FVISI-TM-E.	<b>™</b>
a. Linearize the shuttle planmids with Pme I  1.1.3 of phi Track-CMV-FVISI-TME  or phi Track-CMV-F-FVI-FVISI-TCEST	
or pAci Track-CALV-E-FVI-FVISI-ICEST	
+ 1 rul Buffer + 1120 → 9 ul, + rul Pme I	
37°C, 2hr	
B Co- Counsiance tion: with 100 ng DACLEURY-1	
cit 2560U, 260 Ohms, 25aFD	
nidiprep Midiprep.	L.
· cl. Ironsfect 293 cells with Fifiene.	. <b></b>
90% confluence 293 cells in 6-well-plate,  4 up plasmid/6 ul Futene (well.	
Fig 33	,



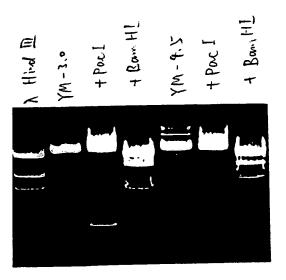


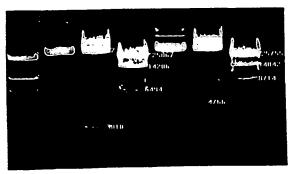


7635

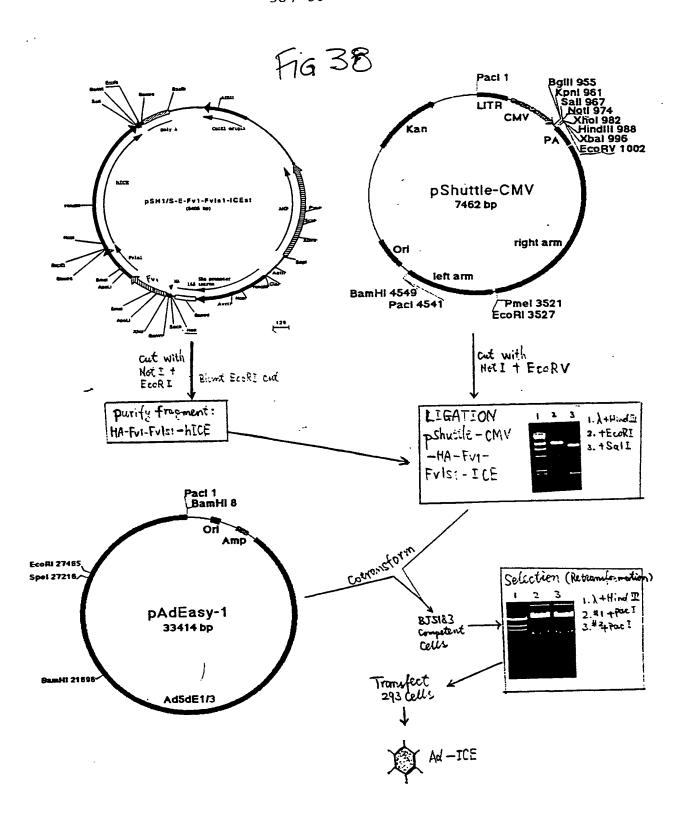
PAd Fasg - 1 - Track - CMV - ICE - E 2 - TAMA-E E - TO THE PAGE - TO THE

Fig 36





Construction of pshottle-CMV-E-F	Ful-Fulst-ICEse
O cut proville - CMV with EvoRV + Not I	
1 mg/2 ml (pshertile - (MV) + 1 col. Butter H + 1 col. Feef V + 1 col. Not : + H20 soul 3000, 2600.	H +Pac !
O cost psH_/S-F-FV1-Fv1s1-1(Est with  Not I + EcoRI (get E-FV1-Fv1s1-ICEst)	
3 200 /4 201 + 3 201 Buffer H, + 3 20 Feo RT + H= 0 21 00 27°C /62	
Blust + 10 mM dHTP 18 col (10 ceM /encl.) + 3 mb Buffer 3 + 3 mb H10 + 7 mb T= DNA Folymina. 25°C	2:'1
+EDTA > 10 mm; >70°C 10'	aut with poel
etians   precipitation -> 24 ed Hoo =	* # # # # # #
Then	
+306 Salar H + 306 Not I	
Gara Cilon Thate in 40 1 Ho	
2) ( ) - 100 m	
Elutari Ital † 2001 ICX Librian Baffier + 2 ml T4 Ligase 25°C one migrit	
Transfer in nition	
F. Miriperp + Respection Engine Checking	
1 Cut pshuttle-cmv-E-Fur-Fusi-ICEst with PmeI ( to a	miniprep), Goteanform E. coli BJ 5183 with
100 ng pAd Eury-1. Miniprep + paci checking (photo 3) Chose #2, retransform XL-1 Blue, Miniprep, +paci;	obore)



A Hind II

paluttle - CMU

+ Earl

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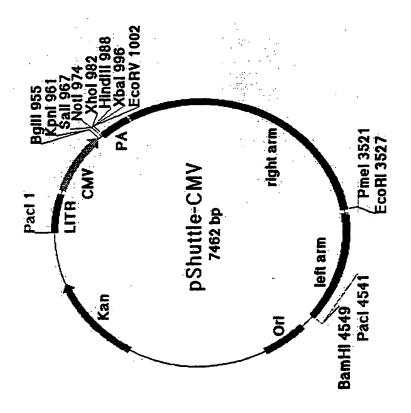


Fig 39

D9547418 D929D0

Doeler athand

Fig 40

	1670
	Luciferare Arsay of psinitle-cmy
	- FV, - FVSI - ICE - E 0104 - 010799
V	1×105 JD-201 cells / well (6 well - date)
	in 1840 RPMT healing with 5% FES
	incubate 29 his
<b>(2)</b>	Transfection: 249 pGL: 245: ICE per well
	Futene 2nd/4g DNA
	incubate 6 hrs, add AP 1903 at sonm.
	Insulate 24 hrs.
<u>ن</u>	
(3)	yris - Mutometer
	8 JAN 99 AM 10:59 V. 1.1
	MEAS. TIME(s): 15.0
	SAMPLE RLU % C.V.
	1 1 294 1 2 291 Control MEAN 292 8.8
	MEAN 292 0.8
	2 1 2681959
	2 1 2681959
	2 1 2681959 2 2 2769999 MEAN 2725979 2.3 Codol + PGl 2
	2 1 2681959 2 2 2769999 MEAN 2725979 2.3 Codod + PGl 2
	2 1 2681959 2 2 2769999 MEAN 2725979 2.3 Codol + PGl 2

Fig 41

D Plat	ina celle:	24 well - plate	2						
	D-30			<u> </u>		<del></del>			
	T-C2	- 10000 h. soll.	in Int	RPM2 16	so Med	ia (s	<del>% ( 85</del>	) —	
	T-C2G	> 10000/well							
	LNCaP	-3000/well	in Indi	umem n	ledioi (t	2%FBS	. 5% Nus	zeur, las	
	incubate J	D 29 lives	Cell	mule	e doub	ling.	_ 406	<del>0</del> 0	
		-Cz, TC2G -481	vs.				- 400	00	
	1	NCAP -72 how					-600	00	
<b>(</b> 2) ·	Infection:								
		Icē 1×107 ju/ml	MoI	_ (	2	4	۶.	16	
				. 4	8	16	32	64 w	
		YM 2×107 zu/ml	Mol	2.5	2	10	20	40	
					10	20	40	80 rul	
				1:10				•	
	For T-Cz	ICE SX107 zu/m	Moi	2.5	_ 2	10	סנ	40	
	+T-C2G		Add	2	4	ક	16	٦2	
	-	YM 5x10774/m		٤.٢	. 2	()	20	40	
			Aold		4	<u> </u>	16	7.5	
	Fer LN Cap			3	6	15	29	18	
	After 4 ber	. Add AP 1903 -	sonM, inc	ubate	24 fir	٠		<del></del>	
<u> </u>	Fix with	1% Glutaralde	hyde -P	25	: 21				
	Stain 0.5% Crustal Vislate, 20':								
•	1	h H20, 30';							

oseta. Ertzaco

T-C2G Cells Treated with Ad-YAMA or Ad-ICE + AP1903 or AP20187

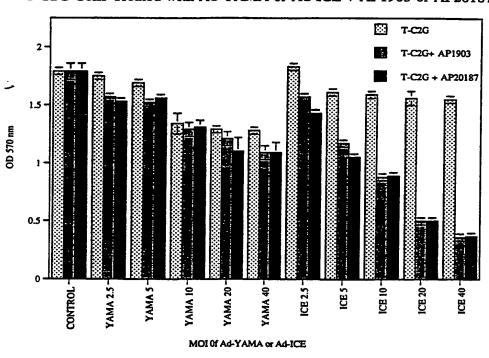


Fig 42

PCT/US99/06799

T-C2 Cells Treated with Ad-YAMA or Ad-ICE + AP1903 or AP 20187

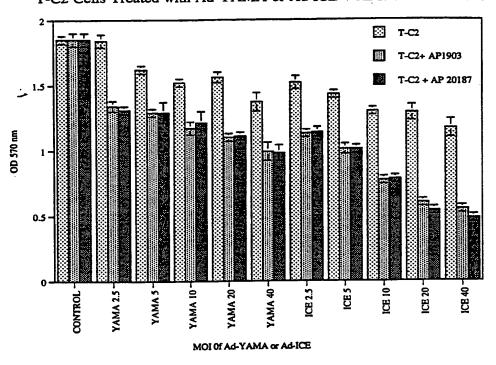


Fig 43

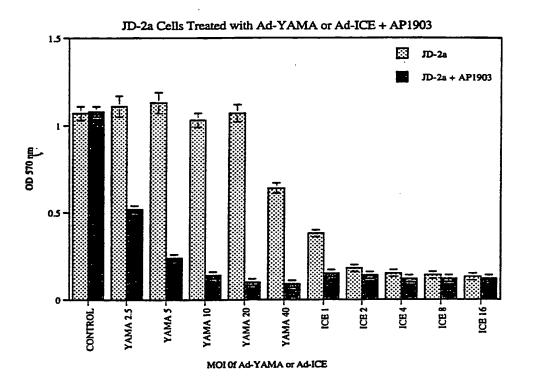
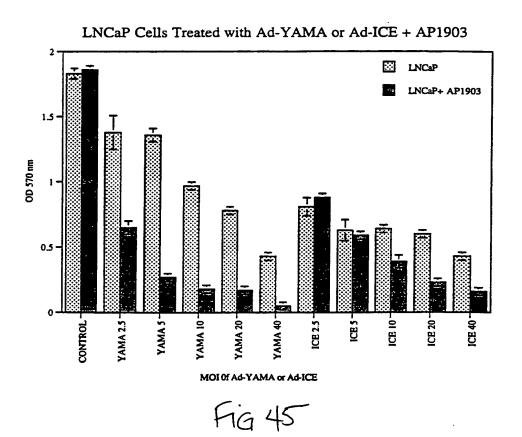


FIG 44



Western Blot 1103-11048;

293 cells: infected with Ad-YM or Ad-ICE 9% Resolution Gel; Tonsfer - 400.00A. 2 hrs.

1 Ad-IM3

2 - - +1403 (Benn)

3 -, + 2.D-DCB (wonM)

4 -1 + Bozin

JUI-DA Z

¿091+ ~ ~

7 -- +2-0-008

8 · · + Boxh

9 Ail-YM4

10 -- + 1903

11- -/ +2-0-OCB

12 - + Both

Expression and Activation of RCE and YM

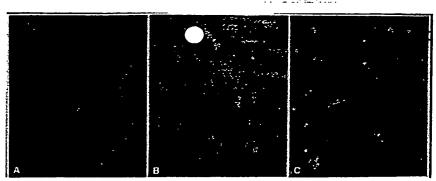


Fig 47

Coese a coese

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effectively kills

-9	- 33£ 8	1, 3000	8	- 1985, 7848	8 . Brassman	SOLA SSOCASSA ASS	
, CAS	16	+		>			Ž.
	16						)
Sec. 1000 1000	8	+					
	8						
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	4				) <b>(</b>	, 2	
	2	+		- 10/ -	++	3 / 1	7
	2	And provided the Contract of the first of th					
	1	+			* / ·	)	
	-						
	0	+					
	0					<b>y</b> (**	
		8					

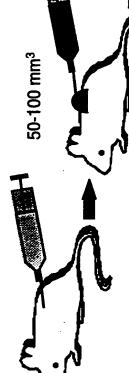
Day 16: Inject 50 μg

C.I.D (i.p.)

## Treatment of s.c. prostate adenocarcinoma in situ with CID-inducible caspases

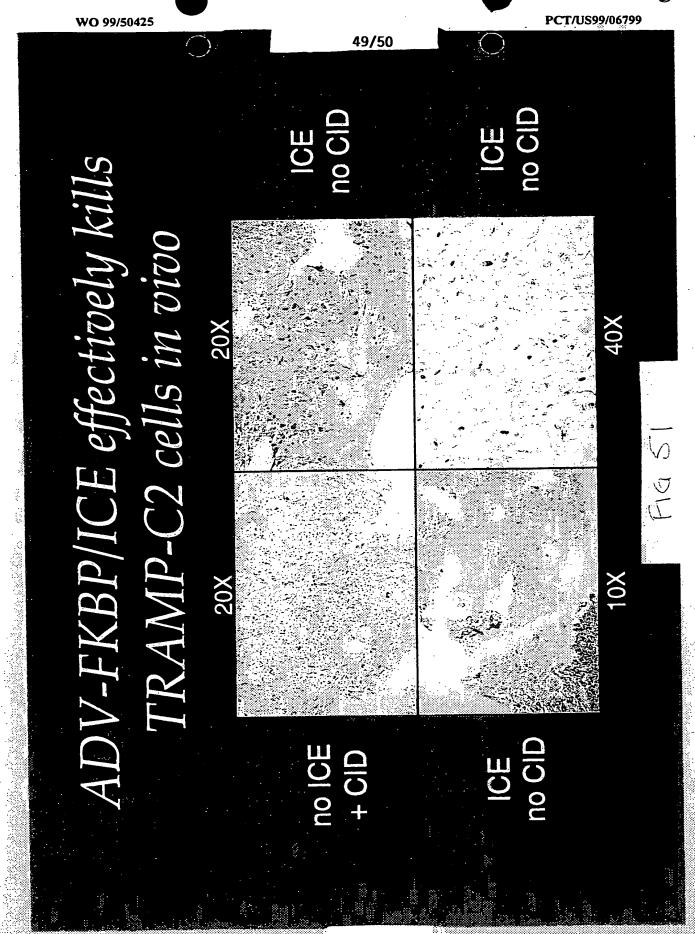
TRAMP-C2 cells (s.c.) Day 0: Inject 2 x 106

Day 12: Inject ~10<sup>10</sup> pfu ADV-GFP/F<sub>v</sub>2-Casp1 (i.t.)

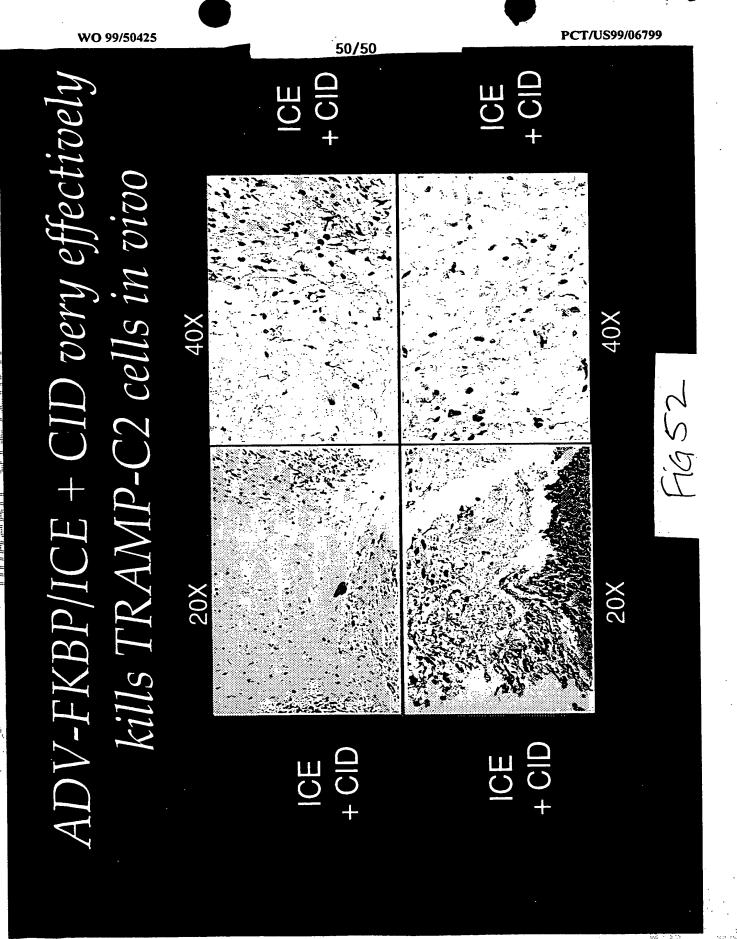


Analysis: resect tumor, H&E, TUNEL, anti-GFP

FIG SD



DOMHYHIB COESOO



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